













ESD

TVS

TSS

MOV

GDT

PLED

## B220A(MS)THRU B2100A(MS)

**Product specification** 



#### MSKSEMI SEMICONDUCTOR

# B220A(MS)THRU B2100A(MS)

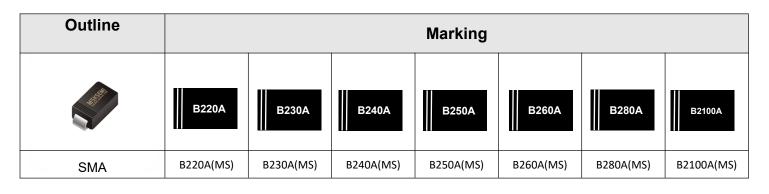
## Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Metal silicon junction, majority carrier conduction
- Low power loss,high efficiency
- Built-in strain relief, ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds at terminals

## **Mechanical Data**

- Case: JEDEC DO-214AC molded plastic body
- Terminals: leads solderable per MIL-STD-750,
- Method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight:0.070 grams

## **Reference News**



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Catalog Number		SYMBOLS	B220A(MS)	B230A(MS)	B240A(MS)	B250A(MS)	B260A(MS)	) B280A(MS)	B2100A(MS)	UNITS
Maximum repetitive peak reverse voltage		Vrrm	20	30	40	50	60	80	100	VOLTS
Maximum RMS voltage		Vrms	14	21	28	35	42	56	70	VOLTS
Maximum DC blocking voltage		VDC	20	30	40	50	60	80	100	VOLTS
Maximum average forward rectified current at TL(see fig.1)		(AV)	2.0					Amps		
Peak forward surge current										
8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	50.0					Amps		
Maximum instantaneous forward voltage at 2.0A		VF		0.55		0.70	)	0.8	5	Volts
Maximum DC reverse current at T <sub>A</sub> =25 °C		F	0.5					mA		
rated DC blocking voltage	T <b>a=100</b> ℃	lR I			10.0	5.0		D		
Typical junction capacitance (NOTE 1)		CJ	220 180			pF				
Typical thermal resistance (NOTE 2)		Reja	75.0				°C/W			
Operating junction temperature range		TJ,	-50 to +125 -50 to +150			+150	°C			
Storage temperature range		Тѕтс	-50 to +150			°C				

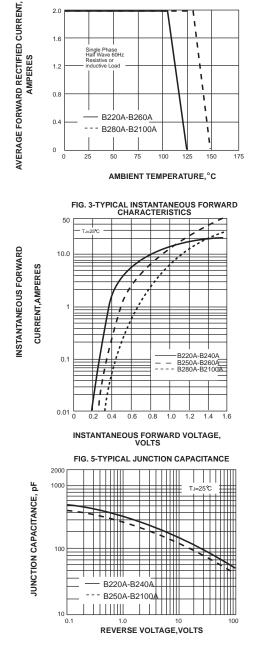
Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

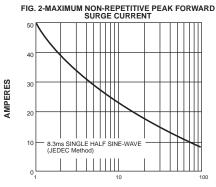
2.P.C.B. mounted with 0.2x0.2 "(5.0x5.0mm) copper pad area



#### **RATINGS AND CHARACTERISTIC CURVES**

FIG. 1- FORWARD CURRENT DERATING CURVE



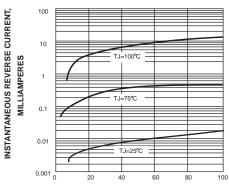


FORWARD SURGE CURRENT,

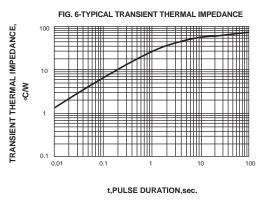
PEAK

NUMBER OF CYCLES AT 60 Hz

FIG. 4-TYPICAL REVERSE CHARACTERISTICS

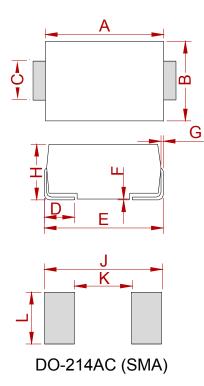


PERCENT OF PEAK REVERSE VOLTAGE,%





## PACKAGE MECHANICAL DATA



	Dimensions						
Ref.	Millin	neters	Inches				
	Min.	Max.	Min.	Max.			
А	4.25	4.65	0.167	0.183			
В	2.50	2.90	0.098	0.114			
С	1.35	1.65	0.053	0.065			
D	0.76	1.52	0.030	0.060			
E	4.93	5.28	0.194	0.208			
F	0.051	0.203	0.002	0.008			
G	0.15	0.31	0.006	0.012			
Н	1.98	2.41	0.078	0.095			
J	6.50		0.256				
К		2.30		0.090			
L	1.70		0.067				

#### **REEL SPECIFICATION**

P/N	PKG	QTY
B220A(MS)THRU B2100A(MS)	SMA	2000



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